

Claims

Sub
A
1. A flame retardant, halogen-free polymer composition comprising a blend of

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(1) ethylene vinyl acetate carbon monoxide terpolymer containing 30-90% by weight ethylene, 10-70% by weight vinyl acetate and 1-40% by weight carbon monoxide;

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(2) an ethylene vinyl acetate or polyolefin selected from the group consisting of (a) ethylene vinyl acetate containing 25-90% by weight ethylene and 10-75% by weight vinyl acetate, (b) a linear low density polyethylene, (c) a low density polyethylene, (d) a very low density polyethylene and (d) a high density polyethylene; and mixtures thereof;

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(3) an ethylene vinyl acetate or polyolefin selected from the group consisting of (a) ethylene vinyl acetate containing 25-90% by weight ethylene and 10-75% by weight vinyl acetate, (b) a linear low density polyethylene, (c) a low density polyethylene, (d) a very low density polyethylene and (d) a high density polyethylene; and mixtures thereof; each of which is grafted with 0.05-3 % by weight of a carboxylic acid or an anhydride thereof; and

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(4) an inorganic filler.

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2. A blend according to claim 1 wherein component (1) comprises 1-60 % by weight of the blend, component (2) comprises 1-50 % by weight of the blend, component (3) comprises 1-40 % by weight of the blend, and component (4) comprises 20-85% by weight of the blend.

3. A blend according to claim 1 wherein component (1) comprises 5-25% by weight of the blend, component (2) comprises 5-25% by weight of the blend component (3) comprises 1-15% by weight of the blend, and component
5 (4) comprises 50-75% by weight of the blend.
4. A blend according to claim 1 wherein component (1) comprises 5-15% by weight of the blend, component (2) comprises 10-20% by weight of the blend component (3)
10 comprises 3-10% by weight of the blend, and component (4) comprises 60-70% by weight of the blend.
5. A blend according to claim 1 wherein component (4) is aluminum trihydrate, magnesium hydroxide, calcium
15 carbonate, calcinated clay, talcum, ammonium polyphosphate or a mixture thereof
6. A shaped article formed from a blend according to claim 1.